

ABSTRACT

Human antibody fragments (Fab 14.6.19 and Fab 14.6.20) including polynucleotides and amino acids (SEQ ID NO: 3, SEQ ID NO: 4, SEQ ID NO: 5 and SEQ ID NO: 6) that identify them.

5 Both Fabs are fully human, are affinity matured in vivo, are highly specific for breast cancer, and target an antigen that is immunogenic in vivo. Thus, each Fab may be a useful clinical reagent for diagnosis or therapy of breast cancer and may also lead to the discovery of a novel immunogenic and tumor specific breast cancer antigen.